

**REGISTERED POST**

ACL/DCW/CFO/MINES/2014-15/

Date: 29.12.2014

To  
The Member Secretary,  
A.P. Pollution Control Board  
Paryavaran Bhavan A-III, IE, Sanath Nagar  
Hyderabad-500018

**Sub: Half yearly CFO Compliance report of Durga Cement works (Mines Division), granted by A.P Pollution Control Board Vide Consent Order No: APPCB/VJA/GTR/16829/HO/CFO 2014-Dated: 23.01.2014.**

Dear Sir,

With reference to above, please find enclosed half yearly compliance report for Consent for Operation (CFO) of Durga Cement works (Mines Division), a unit of Andhra Cements Limited, Gamalapadu(V), Dachehalli(M), Guntur-Dist (AP) for the period from April 2014 to September 2014 for your kind information and record please.

Thanking you.

Yours faithfully  
For **DURGA CEMENT WORKS**  
A Unit of Andhra Cements Limited

  
(Anjali Kumar)  
Sr. GM (P&QC)

Encl: As above

Copy to:  
The Environmental Engineer  
Regional Office, A.P Pollution Control Board  
102 Raghava Apartment, Brundavan garden  
Guntur, Andhra Pradesh  
Pin-522007

**DURGA CEMENT WORKS**  
**(MINES DIVISION)**  
**A UNIT OF ANDHRA CEMENTS LIMITED**  
**DURGAPURAM (V) DACHEPALLI (M)**  
**GUNTUR -DISTRICT (AP)**

**HALF YEARLY COMPLIANCE REPORT OF CFO OF DURGA CEMENT WORKS (MINES DIVISION) A  
UNIT OF ANDHRA CEMENTS LIMITED FOR THE PERIOD OF APRIL 2014 SEPTEMBER 2014**

**CONSENT ORDER NO.APPCB/VJA/GTR/16829/CFO/2014- DATE: 23.01.2014**

| <b>SCHEDULE-A</b> |  |   |
|-------------------|--|---|
| <b>S.N</b>        | <b>CFO STIPULATED CONDITION</b>  | <b>COMPLIANCE CONDITION</b>   |
| 1                 | The applicant shall make applications <b>through online</b> for renewal of Consent (under Water and Air Acts) Authorization under HWM Rules <b>at least 120 days before the date of expiry of this order</b> , along with prescribed fee under Water and Air Acts for obtaining Consent & HW Authorisation of the Board along with detailed compliance to the conditions stipulated in the CFO and HWA order.  | Agreed  |
| 2.                | Any person aggrieved by an order made by the State Board under Section 25,Section 26,Section 27 of Water Act,1974 or Section 21 of Air Act,1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules,1976 and Air Rules 1982,to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of the Water (Prevention and Control of Pollution) Act,1974 and Section 31 of the Air (prevention and control of pollution) Act,1981. | Agreed.   |
| 3.                | The industry may explore the possibility of tapping the solar energy for their energy requirements.  | Possibility of solar energy is being explored   |
| 4.                | All other conditions stipulated in the schedule –A of the earlier combined CFO & HWA order No: APPCB/VJA/GTR/534/HO/CF/2008, dated 18.11.2008 remains same. The industry shall ensure consistent compliance of each condition of Schedule –A   | All other conditions stipulated in Consent Order dated.18-11-2008 are being complied. |

| <b>SCHEDULE –B</b> |   |   |   |                 |
|--------------------|---|---|---|-----------------|
| 1.                 | The effluent discharged shall not contain constituents in excess of the tolerance limits mentioned below  |   | There are no effluents generated from the Mines. However the effluent (STP) discharged will not contain constituents in excess of the prescribed tolerance limits   |                 |
|                    | <b>Outlet No.</b>   | <b>Parameter</b>                                  |   |                 |
|                    | 1   | pH  |   | 5.5-9.00        |
|                    |   | Total suspended solids (at103-105 <sup>o</sup> C) |   | 200.0 mg/l      |
|                    |   | Oil &Grease                                       |   | 10.0            |
|                    |   | Chemical Oxygen Demand(COD)                       |   | 250.0 mg/l      |
|                    |   | BOD   | 100.0 mg/l  |                 |
| 2.                 | The industry shall take steps to reduce water consumption to the extent possible and consumption shall NOT exceed the quantities mentioned below  |   | Following Initiatives are being taken to reduce water consumption:<br>1. Construction of STP to maintain Zero waste water discharge. Treated water reused in dust suppression & green belt development at mines area.<br>2. All the drainage leading to mine pit to conserve the rain water.<br>Water consumption shall not exceed the allowed quantity   |                 |
|                    | <b>S.N</b>  | <b>Purpose</b>                                    |   | <b>Quantity</b> |
|                    | 1   | Process & Washing (Sprinkling in Mining)          |   | 55.0KLD         |
|                    | 2   | Domestic  |   | 5.0 KLD         |
|                    | <b>Total:</b>   |   |   | <b>60.0KLD</b>  |
| 3.                 | Separate water meters with necessary pipeline shall be provided for assessing the quantity of water used for each of the purposes mentioned below:<br>1.Spraying in mine pits 2.Domestic purpose  |   | Separate water meters provided for Mines & Domestic water consumption and records are maintained. <b>Annexure-1</b>   |                 |
| 4.                 | The industry shall file the water cess returns in Form-1 as required under section (5) of water (Prevention and Control of Pollution)Cess Act,1977 on or before the 5 <sup>th</sup> of every calendar month, showing the quantity of water consumed in the previous month along with water meter readings. The industry shall remit water cess as per the assessment order as and when issued by Board.   |   | Being complied. Regular water Cess returns in Form-1 submitted to APPCB Hyderabad and APPCB Regional office, Guntur on monthly basis. Water Cess reports attached as per <b>Annexure-2</b>  |                 |
| 5.                 | The industry shall comply with ambient air quality standards of PM <sub>10</sub> (Particulate Matter Size less than10µm)-100 µg/m <sup>3</sup> , PM <sub>2.5</sub> (Particulate Matter size less than 2.5 µm)-60 µg/m <sup>3</sup> , SO <sub>2</sub> -80ug/m <sup>3</sup> , NO <sub>x</sub> -80ug/m <sup>3</sup> , Outside the factory premises at the periphery of the industry.<br>Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCL-1,dated 18.11.2009<br><b>Noise Levels:</b> Day time (6AM to 10PM)-75dB(A)<br>Night Time(10PM to 6AM-70dB(A) |   | Being complied. On line Continuous Ambient Air Quality Monitoring is being done at 2 nos of Stations. Real time CAAQM data is being transmitted to APPCB Server and to the Display Board at factory gate. In addition to CAAQMS , 4 nos of manual AAQMS have also been working. Noise level is also being monitored. Parameters are within the prescribed limits. Ambient Air & Noise level report attached as per <b>Annexure- 3</b> |                 |
| 6.                 | The industry shall not increase the capacity beyond the permitted capacity mentioned in this order, Without obtaining CFE&CFO of the Board.   |   | Agreed, We shall not increase the capacity beyond the permitted capacity mentioned in this order, without obtaining CFE & CFO of the Board  |                 |
| 7.                 | The Industry shall install one AAQM Station on the  |   | Complied With. AAQM station installed in up   |                 |

|     |  |   |
|-----|--|---|
|     | upwind side of the village.  | wind direction of the Gamalapadu village at near CPP area.  |
| 8.  | The industry shall submit Bank guarantee of Rs.11.7 Lakhs with validity of 3 years for development of green belt in additional area of 117 Acres to meet the norms. Bank Guarantee will be forfeited if the green belt was not developed within 3 years. The industry shall submit action plan with time frames for development of green belt of 117 acers | Complied with. Bank guarantee of Rs.11.7 Lakhs along with Tree plantation action plan of mines submitted at Regional office AP Pollution Control Board Guntur our vide our letter no DCW/ENV/2014/2929 dated:11.03.2014. attached as per <b>Annexure-4</b>              |
| 9.  | The industry shall earmark an amount of Rs.3.0 Lakhs per annum for 10 years towards the Enterprise Social Responsibility (ESR) activities. The industry shall earmark this amount towards the Enterprise Social Responsibility (ESR) activities and spend the amount under ESR activities through ESR/CSR cell in the office of the District Collector.    | Complied with.CSR/ESR activities being taken by the company. CSR report for the year of 2014-15 attached as per <b>Annexure-5</b>   |
| 10. | The Industry shall develop green belt and maintain it on the over burden dumps, haul roads and also along the boundary of the mining area to control air pollution in the surrounding area.  | Complied with. The industry has developed green belt and maintained at the both side of haul road of mines, boundaries and vacant places of mines area.There is no over burden dumps in our mines . Tree plantation progress report attached as per <b>annexure-6</b> . |
| 11. | All waste material shall be disposed properly within the Mining Lease Area.  | No wastes material generated from mining activity.  |
| 12. | All mining rejects, irrespective of size and quality, shall be hauled away from the mine.  | No mining rejects are generated.  |
| 13. | The natural drainage of water shall be maintained. The Dump sites shall not cross any streams. Water flow from the Mines Lease Area shall be free of suspended matter and conform to prescribed water quality standards even during the monsoon.   | Being Complied. Natural drainages are not being obstructed in mines lease area. Water of Mines meets the quality standards.   |
| 14. | Plantation with native species shall be raised along the roads, dump sites to develop a wide greenbelt all around the ML area in consultation with local DFO/Agriculture department.   | Tree plantation has been done of native species along the roads, vacant places and boundary wall of ML area. Tree Plantation progress report attached as above  |
| 15. | Dumping of overburden shall be like a retreating pyramid bench formation and shall carry physical and biological reclamation concurrently. Dumps shall be contoured and provided with relief control and stabilized. Dump tops shall be compacted, leveled and provided with proper drainage.  | There is no overburden in ML area.  |
| 16. | Soil binding and nitrogen fixing plants shall be planted in the Mine Lease Area. Biological reclamation shall be done in two phases. The first phase shall be with appropriate quick growing grass and shrubs and in the second phase slower growing native shrubs and trees shall be grown.   | Soil binding and nitrogen fixing tree plants have being planted in ML area. Photo graphs are attached as per <b>Annexure: 7</b> Tree plantations will be done as directed.  |
| 17. | Check dams and filter beds shall be constructed to protect from stream runoffs.  | Check dams have being constructed to protect stream runoff. Photographs are attached as per <b>Annexure-8</b>   |
| 18. | Ground water table levels shall be monitored every season. Any lowering of the ground water table in comparison to the previous season shall be  | Ground water depth level is being regularly monitored in every season. Reports are attached as per <b>Annexure-9</b>  |

|     |  |   |
|-----|--|---|
|     | reported to the Board immediately. Discarded pits shall be allowed to fill with water.   |   |
| 19. | Vehicles shall be well maintained and engine idling shall be minimized. Vehicle cabs shall be made dust -proof.  | Being complied.   |
| 20. | Drills shall be water jacketed. Local exhaust ventilation systems shall be installed at dust generation points and the dust shall be fed to a dust collection system.  | Being Complied. Water injector and dust collection cyclone system installed in drilling machine for the control of air pollution. Photographs attached as per <b>Annexure-10</b>  |
| 21. | Blasting shall be sequential in such a manner as to achieve minimum vibration  | Being complied. Sequential blasting methods applied for minimum vibration.  |
| 22. | The industry shall maintain four ambient air quality monitoring stations in the core zone as well as in the buffer zone for monitoring RPM, SPM, NO <sub>x</sub> , and SO <sub>2</sub> . Location of the ambient air quality stations shall be decided based on metrological data, topographical features and environmentally and ecologically sensitive targets and the frequency of monitoring shall be undertaken in consultation with the APPCB. | Being complied. 4 Nos AAQM station & 2 Nos CAAQMS station have being installed and being maintained. Location of AAQM stations decided with the consultation of A.P. Pollution Control Board Guntur. Photo graphs are attached as per <b>Annexure :11</b> |
| 23. | A separate environmental management cell with suitable qualified personnel shall be set up under the control of senior executive who will report directly to the head of the organization.   | Being complied. An organization chart of Environment management cell attached as per <b>annexure :12</b>  |
| 24. | The industry shall comply with all other conditions stipulated in the CFE order dated 27.06.2008 including conditions Nos.4 and 5 of Schedule B pertaining to air and noise pollution control from mines.  | All other conditions stipulated in CFE dated.27-06-2008 are being complied.   |
| 25. | The industry shall comply with all the Board directions issued from time to time.  | Agreed  |
| 26. | The applicant shall submit Environment statement in Form V before 30 <sup>th</sup> September of every year as per Rule No.14 of E (P) Rules, 1986 & amendment thereof.   | Complied with. Last Environment Statement in Form-V sent vide our letter no. ACL/DCW/ENV/MINES/2014/4022 dated 20-09-2014.  |
| 27. | The conditions are without prejudice to the rights and contentions of this Board in any Hon'ble court of law.  | Agreed.   |

**Annexure-1**

**Separate water meter provided for mines & domestic water consumption**



**Mines water meter**



**Domestic water meter**

**REGISTERED POST**

DCW/P&QC/ENV/09-14/ 4140

Date:06.10.2014

The Member Secretary,  
AP Pollution Control Board  
Paryavaran Bhavan  
A-III, I.E., Sanath Nagar  
HYDERABAD- 500 018

**Subject: Monthly Monitoring Report for the Lime Stone Mines of Durga Cement Works at village Gamalapadu, Mandal –Dachepalli, Dist-Guntur (AP)**

**Ref: CFO vide order no: APPCB/VJA/GTR/16829/HO/CFO/2014,Dt.23.01.2014**

Dear Sir,

Please find enclosed following reports of Durga Cement Works (Mines Division) a unit of Andhra Cements limited for the month of September 2014.

1. Monthly water consumption report of Mines
2. Ambient air quality monitoring report of mines,
3. Noise level report of mines

This is for your kind information and records.

Thanking You

Yours faithfully,  
For **Durga Cement Works** (Mines Division)  
(A unit of Andhra Cements Limited)

  
Anjani Kumar  
Sr.GM (P&QC)

Encl: a/a

CC: The Environmental Engineer  
AP Pollution Control Board, Regional Office  
102, Raghava Apartments, Brundavan Gardane,  
G U N T U R – 522 007

o/c

**DURGA CEMENT WORKS**

A Unit of Andhra Cements Limited  
Gamalapadu(V), Dechepalli(M), Dist- Guntur  
Andhra Pradesh

**AMBIENT AIR QUALITY MONITORING REPORT**  
**APRIL 2014 TO SEPTEMBER 2014**

**LOCATION -1 NEAR MINE PIT-1, (CROSS WIND)**

| S.N |                    | PM-2.5 $\mu\text{g}/\text{m}^3$ | PM-10 $\mu\text{g}/\text{m}^3$ | SO <sub>2</sub> $\mu\text{g}/\text{m}^3$ | NO <sub>2</sub> $\mu\text{g}/\text{m}^3$ |
|-----|--------------------|---------------------------------|--------------------------------|--|--|
| 1   | MAX.               | 32.25                           | 62.09                          | 8.83                                     | 15.45                                    |
| 2   | MIN.               | 12.72                           | 41.5                           | 3.19                                     | 4.93                                     |
| 3   | AVG.               | 23.08                           | 50.32                          | 6.43                                     | 10.31                                    |
| 4   | STD DEV.           | 3.85                            | 4.83                           | 1.21                                     | 1.83                                     |
| 5   | COFF. OF VARIATION | 0.17                            | 0.10                           | 0.19                                     | 0.18                                     |
| 6   | 98 PERCENTILE      | 31.77                           | 59.83                          | 8.48                                     | 14.97                                    |

**LOCATION -2 NEAR NAGULERU RIVER PUMP HOUSE, (CROSS WIND)**

| S.N |                    | PM-2.5 $\mu\text{g}/\text{m}^3$ | PM-10 $\mu\text{g}/\text{m}^3$ | SO <sub>2</sub> $\mu\text{g}/\text{m}^3$ | NO <sub>2</sub> $\mu\text{g}/\text{m}^3$ |
|-----|--------------------|---------------------------------|--------------------------------|--|--|
| 1   | MAX.               | 27.85                           | 49.64                          | 8.22                                     | 14.44                                    |
| 2   | MIN.               | 10.27                           | 34.62                          | 2.96                                     | 5.39                                     |
| 3   | AVG.               | 19.64                           | 42.34                          | 5.59                                     | 9.07                                     |
| 4   | STD DEV.           | 3.66                            | 3.63                           | 1.49                                     | 2.12                                     |
| 5   | COFF. OF VARIATION | 0.19                            | 0.09                           | 0.27                                     | 0.23                                     |
| 6   | 98 PERCENTILE      | 27.01                           | 49.06                          | 8.11                                     | 13.48                                    |

**LOCATION -3 NEAR CPP (TOWARDS GAMALAPADU VILLAGE), (UP WIND)**

| S.N |                    | PM-2.5 $\mu\text{g}/\text{m}^3$ | PM-10 $\mu\text{g}/\text{m}^3$ | SO <sub>2</sub> $\mu\text{g}/\text{m}^3$ | NO <sub>2</sub> $\mu\text{g}/\text{m}^3$ |
|-----|--------------------|---------------------------------|--------------------------------|--|--|
| 1   | MAX.               | 34.69                           | 64.96                          | 8.86                                     | 14.89                                    |
| 2   | MIN.               | 17.80                           | 40.23                          | 4.01                                     | 6.71                                     |
| 3   | AVG.               | 25.40                           | 52.10                          | 6.57                                     | 10.62                                    |
| 4   | STD DEV.           | 3.63                            | 4.59                           | 1.28                                     | 1.98                                     |
| 5   | COFF. OF VARIATION | 0.14                            | 0.09                           | 0.19                                     | 0.19                                     |
| 6   | 98 PERCENTILE      | 33.18                           | 60.92                          | 8.69                                     | 14.48                                    |

**LOCATION -4 COLONY AREA (TOWARDS SRI NAGAR VILLAGE),(DOWN WIND)**

| S.N |                    | PM-2.5 $\mu\text{g}/\text{m}^3$ | PM-10 $\mu\text{g}/\text{m}^3$ | SO <sub>2</sub> $\mu\text{g}/\text{m}^3$ | NO <sub>2</sub> $\mu\text{g}/\text{m}^3$ |
|-----|--------------------|---------------------------------|--------------------------------|--|--|
| 1   | MAX.               | 28.49                           | 47.94                          | 8.90                                     | 14.98                                    |
| 2   | MIN.               | 12.97                           | 33.25                          | 2.96                                     | 5.66                                     |
| 3   | AVG.               | 19.29                           | 41.73                          | 5.36                                     | 8.72                                     |
| 4   | STD DEV.           | 3.19                            | 3.89                           | 1.74                                     | 2.30                                     |
| 5   | COFF. OF VARIATION | 0.17                            | 0.09                           | 0.32                                     | 0.26                                     |
| 6   | 98 PERCENTILE      | 24.81                           | 47.74                          | 8.69                                     | 14.48                                    |



# DURGA CEMENTS WORKS

A Unit of Andhra Cements Limited

Dugapuram,P.O- Srinagar, Dachepalli (M), dist- Guntur,(A.P)

## NOISE LEVEL REPORT

(April-2014 to September 2014)

### 1. Colony area

|                    | Day Time dBA | Night Time dBA |
|--------------------|--------------|----------------|
| MAX                | 45.6         | 43.6           |
| MIN                | 41.5         | 40.5           |
| AVG                | 43.48        | 42.28          |
| STD DEV.           | 1.19         | 0.94           |
| COFF. OF VARIATION | 0.03         | 0.02           |
| 98 PERCENTILE      | 45.6         | 43.6           |

### 2.Near Time Office

|                    | Day Time dBA | Night Time dBA |
|--------------------|--------------|----------------|
| MAX                | 55.30        | 53.70          |
| MIN                | 45.60        | 44.80          |
| AVG                | 51.55        | 49.87          |
| STD DEV.           | 2.46         | 2.26           |
| COFF. OF VARIATION | 0.05         | 0.05           |
| 98 PERCENTILE      | 55.02        | 53.22          |

### 3.Near Mine Office

|                    | Day Time dBA | Night Time dBA |
|--------------------|--------------|----------------|
| MAX                | 55.80        | 53.80          |
| MIN                | 44.50        | 42.10          |
| AVG                | 52.43        | 50.53          |
| STD DEV.           | 2.32         | 3.15           |
| COFF. OF VARIATION | 0.04         | 0.06           |
| 98 PERCENTILE      | 55.40        | 53.72          |

## Annexure- 4

**DURGA CEMENT WORKS**  
A Unit of Andhra Cements Limited

Date: 11.03.2014

DCW/ENV/2014/2929

The Environmental Engineer,  
AP Pollution Control Board, Regional office,  
102, Raghava Apartments, Brundavan Gradens,  
Guntur, Andhra Pradesh  
Pin - 522 007

**Subject: Submission of Bank Guarantee no.G00IBGF140550001 dt. 24-02-2014 of Rs.11.70 lakhs (Rupees Eleven lakhs seventy thousand only) as per Consent Order along with trees plantation action plan of Durga Cement Works (Mines Division), M/s Andhra Cements Ltd; Dachepalli, Guntur(AP)-522414**


**Reference: APPCB consent order no. : APPCB/VJA/GTR/16829/HO/CFO/2014 dated: 23.01.2014**

Dear Sir,

This has reference to the clause no. 8 of above Consent Order issued in our favour. Bank Guarantee no. G00IBGF140550001 dt. 24-02-2014 of Rs.11.70 lakhs (Rupees Eleven lakhs seventy thousand only) issued by the Karur Vysya Bank limited, 882 Master Prithvinath Marg, Karolbag, New Delhi - 110005 is enclosed .B.G. is valid up to 28.02.2017. Tree plantation action plan for 3 years for the Mines area of 117 acres of Durga Cement Works (Mines Division) is also submitted herewith for your kind information please.  
Kindly acknowledge the receipt of B.G.


Thanking you,

Yours faithfully,  
For Durga Cement Works  
(A unit of Andhra Cements Limited)

  
(Anjali Kuryan)  
Sr.GM(R&OC)


Encl: a/a

Cc: The Member Secretary, For kind information please.  
AP Pollution Control Board,  
Paryavaran Bhavan,  
A-III, I.E., Sanath Nagar,  
Hyderabad- 500 018



o/c

**ANDHRA CEMENTS LIMITED**  
Regd. Office & Factory : Durga Cement Works, Durgapuram, Srinagar (P.O),  
Dachepalli - 522414, Guntur District, Andhra Pradesh  
Ph : +91 - 8649 - 257428, Fax : +91 8649-257428



**Various measures of CSR activities being done in the surrounding villages**

1. Education.
2. Filter Water supply. Maintenance and Support.
3. Dandivagu Lift Irrigation Scheme. Maintenance and Support.
4. Health & Hygiene.
5. Medical Camps.
6. Street lights illumination.
7. Cutting and cleaning bushes.
8. Financial Assistance for maintenance of Religious places.
9. Contribution for Annadanam in a Temple procession.
10. White-washing & colouring of Religious places.
11. Supporting for Athletic Champion Sports meet in the District.
12. Providing Tricycles for the physically challenged persons.
13. Providing Aggregate chips for construction of church etc.
14. Laying water pipe line in Srinagar village.
15. Providing Aggregate chips for filling the pit holes of the Road connecting Ramapuram village to State High Way.
16. Repairs and Reconstruction of School compound wall & Grampanchayat office compound wall.
17. Providing Medical check ups to all students with free medical help and energy food to Junior Class students (weekly twice) at Durga Public School.
18. Construction of Kalyana Mandapam.
19. Road repair work / Cementing of road.
20. Provided R.O.Plant at Srinagar Village under NTR SUJALA PATHAKAM and inaugurated by Shri Yarapathineni Srinivasa Rao, MLA on 02-10-2014.
21. Providing free R.O. Drinking water.
22. Providing Free Medical facilities, Ambulance and Fire services in Emergencies to the neighbouring villages.

**SUMMARISED CSR ACTIVITIES & EXPENSES PLANNED FOR 2014-15 & 2015-16**

| S.No. | Item   | Amount<br>(Rs.in Lakhs) |
|-------|--|-------------------------|
| 1     | Provided R.O.Plant at Srinagar village under NTR SUJALA PATHAKAM, inaugurated by Shri Yarapathineni Srinivasa Rao, MLA on 02-10-2014   | 2.70                    |
| 2     | Extension of water pipe line in one of wards in Srinagar Village   | 4.00                    |
| 3     | a) Drinking water supply scheme<br>b) Pump house repairs are to be carried out as the pipeline system was introduced in 1995 and rusted  | 2.40<br>4.00            |
| 4     | Dandivagu Lift Irrigation Scheme   | 1.60                    |
| 5     | Improving Health & Hygiene in surrounding villages   | 10.00                   |
| 6     | Aggregate chips for filling pit holes of the Road connecting Ramapuram village to State High way – 2.5 Kms   | 11.00                   |
| 7     | a) Repairs to the construction of School compound wall in Gamalapadu village – 350 Mtrs with main gate.<br>b) Grampanchayat Office compound wall repairing (collapsed wall) and gate | 6.00<br>2.50            |
| 8     | Financial assistance for maintenance religious places in surrounding villages  | 1.00                    |
| 9     | Construction of Kalyana Mandapam in Ramapuram Village  | 10.00                   |
| 10    | Laboratory and Library renovation in Durga Public School   | 5.00                    |
| 11    | White-washing & colouring of Siva Temple in Ramapuram in connection with Mahasivaratri   | 0.10                    |
| 12    | Cutting & Cleaning bushes in Srinagar village  | 0.60                    |
| 13    | Road repair work / Cementing of road work in Ramapuram & Gamalapadu villages together = 500 Metres   | 15.00                   |
| 14    | Compassionate grounds subsidized / free education to poor / suffering / deserved people  | 3.00                    |
| 15    | Providing medical check ups to all students at DPS with free medical help and energy food to lower class (weekly twice)  | 1.50                    |
| 16    | Providing free R.O. water (including supply of regular water in times of power/water supply failure), emergency medical services and ambulance and fire services                     | 4.00                    |
| 17    | Providing Free Medical facilities, Ambulance and Fire services in Emergencies to the neighbouring villages.  | 2.50                    |
|       | <b>TOTAL EXPENDITURE</b>   | <b>Rs.86.90 Lac</b>     |

## DCW CSR ACTIVITIES



RO Water Plant Provided in Srinagar village



Street light & Water supply pipe line provided in Srinagar Village

**DCW CSR Activities**  
Durga Public School of DCW



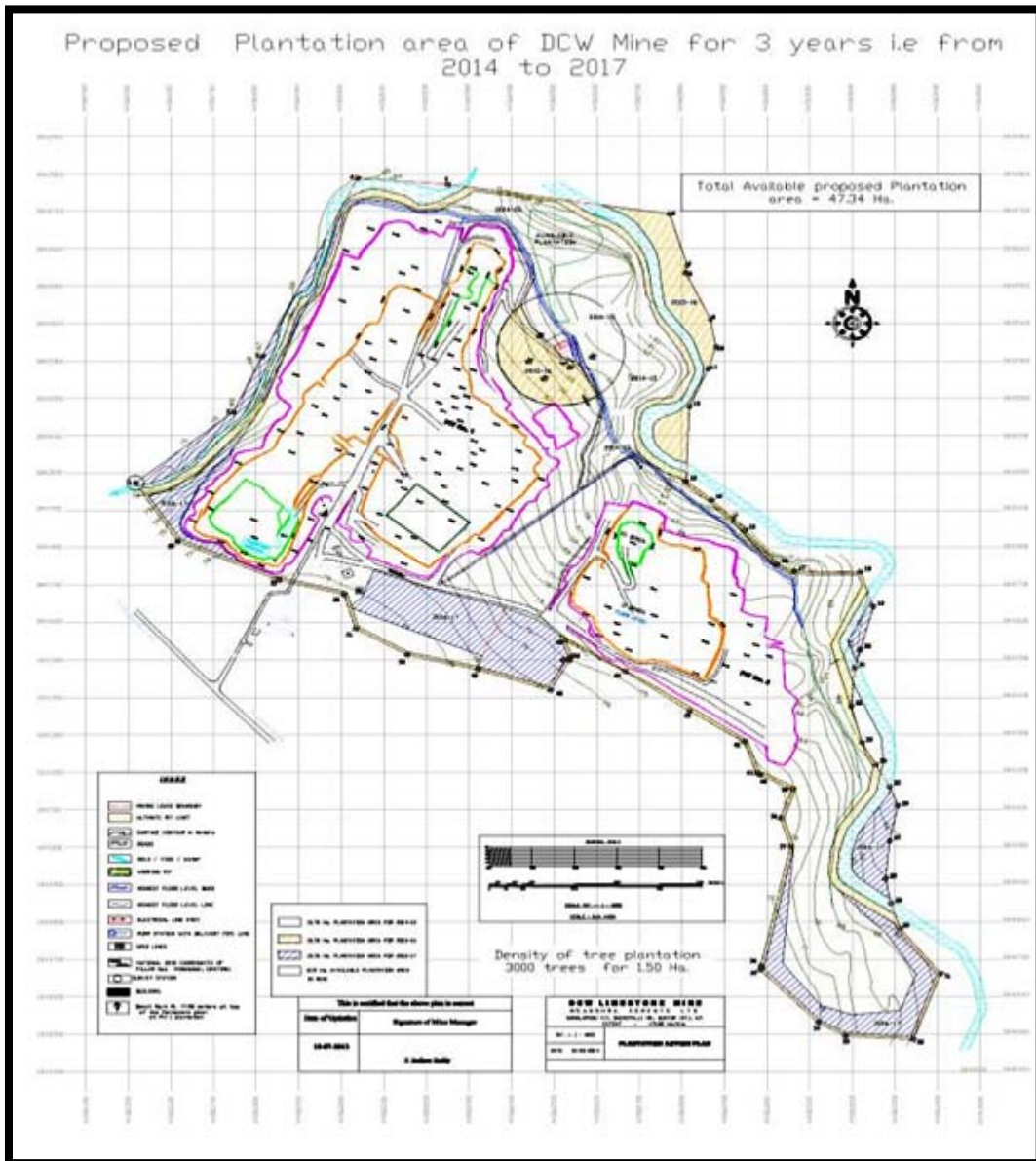
**SUBJECT: MEDICAL HELTH CHECKUP AT DCW DSPENCERY**



## Annexure-6

### Status of Green belt development (Mines)

|   |                      |
|---|----------------------|
| Total mine lease area:                            | - 170.22 Ha          |
| Green belt up to March 2014                       | - 4.69 Ha.           |
| Tree plantation from April 2014 to September 2014 | - 2.47 Ha.           |
| Existing green belt area                          | - 7.16 Ha.           |
| Name of tree planted                              | - Neem, Cono Carpues |
| No. of tree planted                               | - 660 nos            |







**Tree Plantation at mines area**



Tree Plantation done boundary wall of mines



Mines road concreted along with tree plantation

**SOIL BINDING AND NITROGEN FIXING TREES PLANTED IN MINES AREA**



**CHECK DAMS AT DCW MINES**



**Annexure-9****GROUND WATER LEVEL REPORT****PRE MONSOON SEASON****24.04.2013**

| <b>S.N</b> | <b>Location</b>                        | <b>Direction</b> | <b>Distance from Plant</b> | <b>Bore Well/Open well</b> | <b>Depth of Water from ground Level (Meter)</b> |
|------------|--|------------------|----------------------------|----------------------------|---|
| 1.         | Plant site<br>(Near Security man Gate) | S                | -                          | Bore Well                  | 12  |
| 2.         | Srinagar Village                       | SW               | 1.5 Km                     | Bore Well                  | 19  |
| 3.         | Ramapuram Village                      | NW               | 6.0 KM                     | Bore Well                  | 23  |
| 4.         | Gamalapadu Village                     | SE               | 5.0 KM                     | Bore Well                  | 8   |

**GROUND WATER LEVEL REPORT****MONSOON SEASON****02.08.2014**

| <b>S.N</b> | <b>Location</b>                        | <b>Direction</b> | <b>Distance from Plant</b> | <b>Bore Well/Open well</b> | <b>Depth of Water from ground Level (Meter)</b> |
|------------|--|------------------|----------------------------|----------------------------|---|
| 1.         | Plant site<br>(Near Security man Gate) | S                | -                          | Bore Well                  | 11  |
| 2.         | Srinagar Village                       | SW               | 1.5 Km                     | Bore Well                  | 18  |
| 3.         | Ramapuram Village                      | NW               | 6.0 KM                     | Open Well                  | 21  |
| 4.         | Gamalapadu Village                     | SE               | 5.0 KM                     | Bore Well                  | 5   |

## WATER TESTING REPORT OF DURGA CEMENT WORKS

A Unit of Andhra Cements Limited

Sample received: 22.04. 2014

Sample analyzed by: Environment Lab JBCP

| S.N | Parameter                 | Location      | Sri nagar Village | Gamalapa du Village | Colony | Club  | Krishnan | DCW            | IS 10500 Drinking Water Standers Limit |                   |
|-----|---------------------------|---------------|-------------------|---------------------|--------|-------|----------|----------------|--|-------------------|
|     |                           |               |                   |                     |        |       |          |                | Desirable Limit                        | Permissible limit |
|     |                           | Type of Water | Bore              |                     |        |       | River    | Drinking Water |  |                   |
| 1.  | pH                        |               | 8.56              | 7.80                | 8.10   | 8.45  | 7.8      | 7.5            | <b>6.5 to 8.5</b>                      | <b>6.5 to 8.5</b> |
| 2.  | Conductivity ( $\mu$ s)   |               | 1856              | 1963                | 2045   | 1676  | 316      | 39.5           | <b>NA</b>                              | <b>NA</b>         |
| 3.  | Turbidity(NTU)            |               | 1.5               | 1.6                 | 1.7    | 1.8   | 1.95     | 0.61           | <b>5-10</b>                            | <b>5-10</b>       |
| 4.  | Total Hardness (mg/l)     |               | 547               | 513                 | 605    | 654   | 149      | 91             | <b>300</b>                             | <b>600</b>        |
| 5.  | Calcium Hardness (mg/l)   |               | 463               | 455                 | 524    | 580   | 126      | 78             | <b>75</b>                              | <b>200</b>        |
| 6.  | Magnesium Hardness (mg/l) |               | 84                | 58                  | 81     | 74    | 23       | 13             | <b>30</b>                              | <b>100</b>        |
| 7.  | TDS (mg/l)                |               | 1326              | 1425                | 1356   | 1457  | 281      | 34.2           | <b>200</b>                             | <b>2000</b>       |
| 8.  | TSS (mg/l)                |               | -                 | -                   | -      | -     | 67       | -              | <b>100</b>                             | <b>100</b>        |
| 9.  | Alkalinity (mg/l)         |               | 172               | 182                 | 215    | 226   | 76       | 41             | <b>200</b>                             | <b>600</b>        |
| 10. | Chlorides(mg/l)           |               | 79                | 105                 | 86     | 93    | 70       | 12             | <b>250</b>                             | <b>1000</b>       |
| 11. | Fluorides (mg/l)          |               | 0.1               | 0.2                 | 0.3    | 0.4   | 0.2      | 0.3            | <b>0.5</b>                             | <b>1.5</b>        |
| 12. | Arsenic (mg/l)            |               | 0.002             | 0.005               | 0.003  | 0.004 | 0.002    | <0.005         | <b>0.05</b>                            | <b>0.05</b>       |

## WATER TESTING REPORT OF DURGA CEMENT WORKS

A Unit of Andhra Cements Limited

Sample received: 21.07. 2014

Sample analyzed by: Environment Lab JBCP

| S.N | Parameter                 | Location      | Sri nagar Village | Gamalapadu Village | Colony | Club  | Krishnan | DCW            | IS 10500 Drinking Water standers Limit |                   |
|-----|---------------------------|---------------|-------------------|--------------------|--------|-------|----------|----------------|--|-------------------|
|     |                           |               |                   |                    |        |       |          |                | Desirable Limit                        | Permissible limit |
|     |                           | Type of Water | Bore              |                    |        |       | River    | Drinking Water |  |                   |
| 1.  | pH                        |               | 8.10              | 8.58               | 7.90   | 8.36  | 8.10     | 7.85           | <b>6.5 to 8.5</b>                      | <b>6.5 to 8.5</b> |
| 2.  | Conductivity ( $\mu$ s)   |               | 1658              | 1763               | 1475   | 1463  | 362      | 43.6           | <b>NA</b>                              | <b>NA</b>         |
| 3.  | Turbidity(NTU)            |               | 1.8               | 1.7                | 1.9    | 1.6   | 1.75     | 0.58           | <b>5-10</b>                            | <b>5-10</b>       |
| 4.  | Total Hardness (mg/l)     |               | 657               | 589                | 629    | 583   | 175      | 82             | <b>300</b>                             | <b>600</b>        |
| 5.  | Calcium Hardness (mg/l)   |               | 592               | 502                | 551    | 532   | 155      | 65             | <b>75</b>                              | <b>200</b>        |
| 6.  | Magnesium Hardness (mg/l) |               | 65                | 87                 | 78     | 51    | 20       | 17             | <b>30</b>                              | <b>100</b>        |
| 7.  | TDS (mg/l)                |               | 1256              | 1312               | 1365   | 1205  | 263      | 85.6           | <b>200</b>                             | <b>2000</b>       |
| 8.  | TSS (mg/l)                |               | -                 | -                  | -      | -     | 13       | -              | <b>100</b>                             | <b>100</b>        |
| 9.  | Alkalinity (mg/l)         |               | 162               | 174                | 201    | 171   | 71       | 42             | <b>200</b>                             | <b>600</b>        |
| 10. | Chlorides(mg/l)           |               | 47                | 51                 | 43     | 53    | 65       | 22             | <b>250</b>                             | <b>1000</b>       |
| 11. | Fluorides (mg/l)          |               | 0.2               | 0.1                | 0.2    | 0.3   | 0.2      | 0.4            | <b>0.5</b>                             | <b>1.5</b>        |
| 12. | Arsenic (mg/l)            |               | 0.002             | 0.004              | 0.005  | 0.003 | 0.005    | <0.005         | <b>0.05</b>                            | <b>0.05</b>       |

**WET DRILLING PRACTICE AT DCW MINES**



**Dust collector cyclone**



**4 NOS. AAQM MONITORING STATION**



Near CPP



Nagularu River Pump House



Colony area



Near Mines Pit-1

**2. Nos CAAQMS UP WIND & DOWN WIND DIRECTION**



**DURGA CEMENT WORKS**  
(A UNIT OF ANDHRA CEMENTS LIMITED)  
GAMALAPADU (V), DECHEPALLI (M)  
Dist. Guntur, AP

**ORGANIZATION STRUCTURE OF ENVIRONMENT MAMNAGMENT CELL**

